

# Product Information Packet

November 7, 2016

Data shown is for the current revision model #. Ensure your nameplate model # matches.

<b>Model Number:</b>	<b>5CD154SA016B023</b>
<b>Catalog Number:</b>	<b>D683</b>
<b>Instruction Manual:</b>	GEH-3967N
<b>Connection Diagram:</b>	36A167760CB501
<b>Outline Drawing:</b>	36A167942AA002

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	5CD154SA016B023	<b>Enclosure Mtg Assem:</b>	36A167772AD401
<b>Outline Drawing:</b>	36A167942AA002	<b>Instruction Book:</b>	GEH-3967N
<b>Connection Diagram:</b>	36A167760CB501	<b>RPM:</b>	1750/2300
<b>Horsepower:</b>	5	<b>Armature Amps:</b>	17.2
<b>Armature Volts:</b>	240	<b>Type:</b>	CD2110AT
<b>Wound:</b>	SHUNT	<b>Power Supply Code:</b>	D
<b>Enclosure:</b>	TENV	<b>Insulation Class:</b>	F
<b>Duty:</b>	CONT	<b>Ambient Max (°C):</b>	40
<b>Rating Code:</b>	154SB1330-13	<b>Field Volts:</b>	300/150
<b>K(V):</b>	1.23 Cemf volts/Radian/Sec	<b>WK2:</b>	1.71Lb Ft2
<b>K(T):</b>	.87 Ft/Amp	<b>Year of Manufacture:</b>	2016
<b>Minimum Ambient:</b>	0 C	<b>Max Altitude:</b>	3300 Ft

**Resistances at 25 Degrees C :**

<b>Shunt Field:</b>	288 OHMS
<b>Armature:</b>	.4795 OHMS
<b>Commutator Field:</b>	.1579 OHMS

**Inductances:**

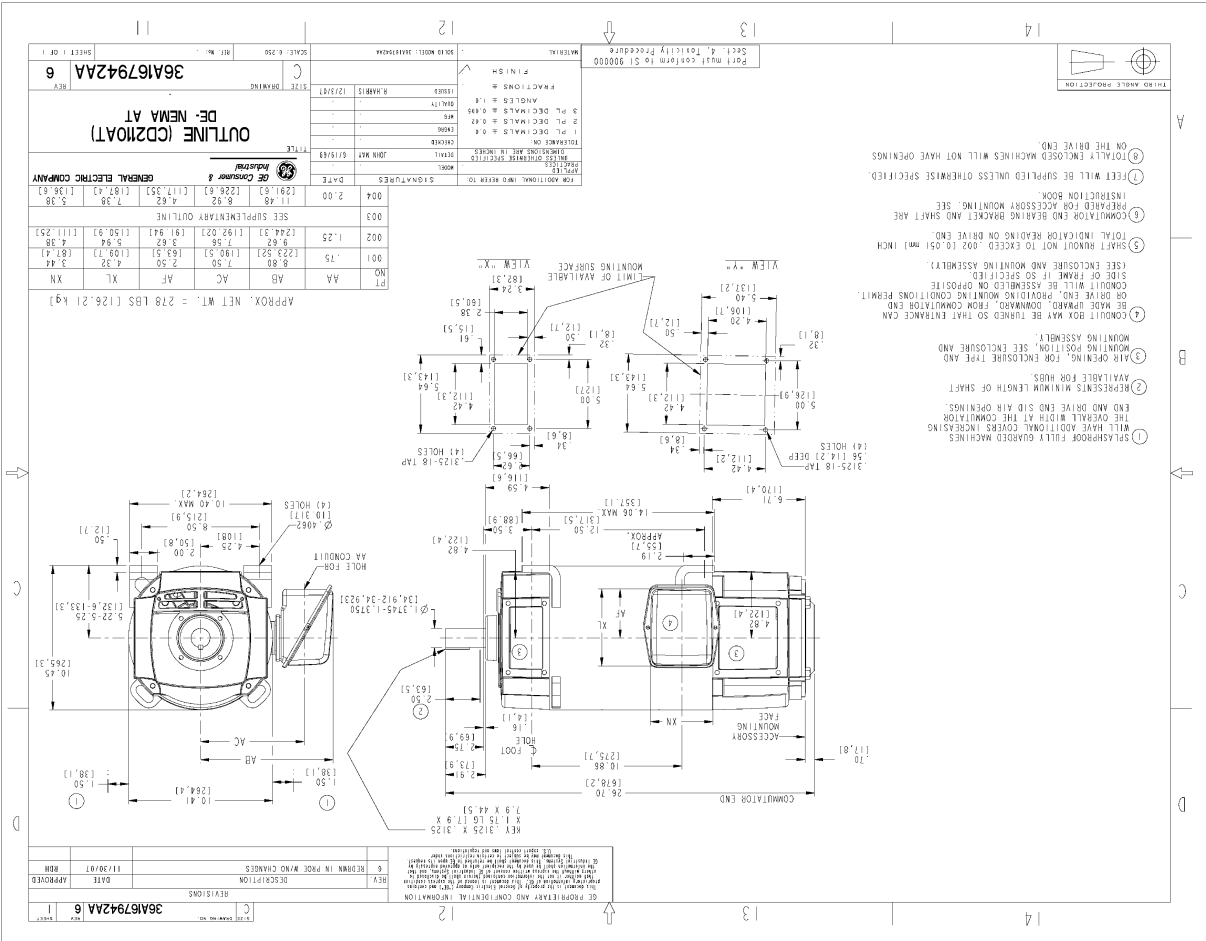
<b>Armature Circuit Total:</b>	8.710 mH Saturated
<b>Shunt Field:</b>	162.0 Henries Unsaturated

**Shunt Field Data:**

Shunt Field Current(1): .74 AMPS at Rated Load and 1750 RPM  
 Shunt Field Current(2): .61 AMPS at Rated Load and 1933 RPM  
 Shunt Field Current(3): .45 AMPS at Rated Load and 2300 RPM

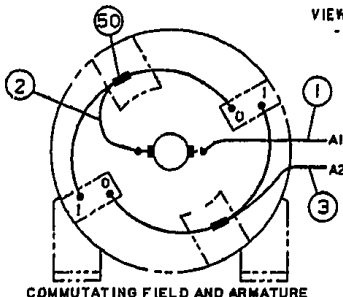
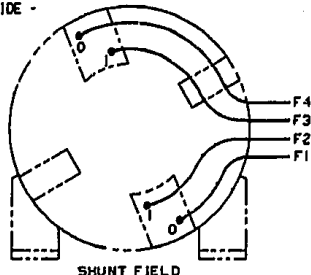
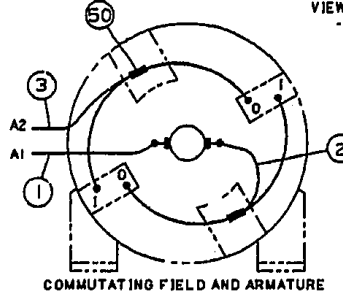
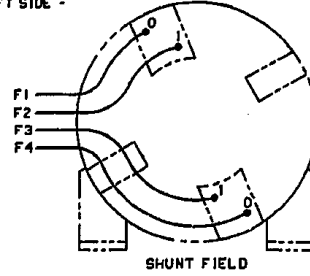
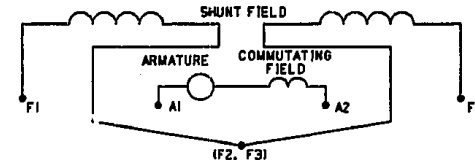
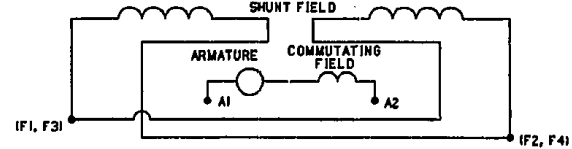
**Additional Machine Notes:**

TOTALLY ENCLOSED NON VENTILATED- BALL BEARINGS  
 CONDUIT BOX ON RIGHT HAND SIDE FACING COMMUTATOR END  
 STANDARD SHAFT DRIVE END ONLY - WITH FEET  
 CSA STAMP  
 WITH:  
 THERMOSTAT- NORMALLY CLOSED, AC RATING- 600V MAX-  
 .5A, 250V-1.5A, OR 125V-3A, DC RATING- 30V MAX-  
 1.5A. MAXIMUM CURRENT BASED ON INDUCTIVE LOADS UP  
 TO AND INCLUDING NEMA NO. 5 CONTACTOR



Marks:

Marks:

NO S.O.	GENERAL ELECTRIC	36A167760CB501	CONT ON SHEET SH NO.
REV 2	TITLE	36A167760CB501	
36A167760CB501	CONNECTION DIAGRAM		
CONT ON SHEET	SH NO.	FIRST MADE FOR 2 POLE	
DIRECT CURRENT MOTOR AND GENERATOR - SHUNT WOUND 1 OR 2 CIRCUIT SHUNT FIELD - 2 CIRCUIT COMMUTATING FIELD			
VIEWS FACING COMMUTATOR END - LEADS OUT RIGHT SIDE -			
 <p>COMMUTATING FIELD AND ARMATURE</p>		 <p>SHUNT FIELD</p>	
VIEWS FACING COMMUTATOR END - LEADS OUT LEFT SIDE -			
 <p>COMMUTATING FIELD AND ARMATURE</p>		 <p>SHUNT FIELD</p>	
<p>ALL EXTERNAL LEADS ARE MARKED. ALL CONNECTIONS AND TERMINATIONS EXTERNAL TO MAGNET FRAME MUST BE INSULATED PER NATIONAL ELECTRICAL CODE AND SOUND LOCAL PRACTICES.</p> <p>SPACE HEATERS, WHEN SPECIFIED, WILL HAVE LEADS WITH TERMINAL MARKINGS H1 AND H2.</p> <p>THERMOSTAT, WHEN SPECIFIED, WILL HAVE LEADS WITH TERMINAL MARKINGS P1 AND P2.</p> <p>ENCIRCLED NUMBERS MAY BE USED FOR PART IDENTIFICATION.</p>			
<p>FOR HIGH NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div>			
<p><b>MOTOR CONNECTIONS:</b> FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A1 THE SAME POLARITY. FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A2 THE SAME POLARITY.</p>		<p><b>GENERATOR CONNECTIONS:</b> FOR CW ROTATION FACING COMMUTATOR END, F1 POSITIVE WILL MAKE A2 POSITIVE. FOR CCW ROTATION FACING COMMUTATOR END, F1 POSITIVE WILL MAKE A1 POSITIVE.</p>	
<p>FOR LOW NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div>			
<p><b>MOTOR CONNECTIONS:</b> FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1,F3) &amp; A1 THE SAME POLARITY. FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1,F3) &amp; A2 THE SAME POLARITY.</p>		<p><b>GENERATOR CONNECTIONS:</b> FOR CW ROTATION FACING COMMUTATOR END, (F1,F3) POSITIVE WILL MAKE A2 POSITIVE. FOR CCW ROTATION FACING COMMUTATOR END, (F1,F3) POSITIVE WILL MAKE A1 POSITIVE.</p>	
2	10-11-94 R.D.BOLLA	NO S.O. RETR	QC(1) CAD
MADE BY P.HARABEDIAN	3-19-69	FILE KC13-1	GE MOTORS ERIE
RE-ISSUED CAD/ R.D.BOLLA	10-11-94	DIV OR DEPT LOCATION	36A167760CB501 CONT ON SHEET SH NO.

C5X.A.36A167760CB501R02